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(19) (CA) **APPLICATION FOR CANADIAN PATENT** (12)

(54) Battery Latch

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(57) 8 Claims

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Notice: This application is as filed and may therefore contain an incomplete specification.



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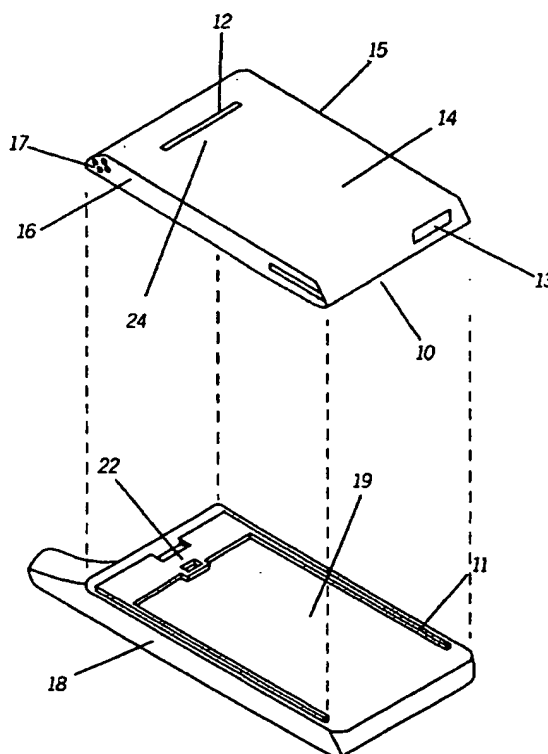
INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

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(21) International Application Number: PCT/US94/08037 (22) International Filing Date: 18 July 1994 (18.07.94) (30) Priority Data: 08/095,074 20 July 1993 (20.07.93) US (71) Applicant: MOTOROLA INC. [US/US]; 1303 East Algonquin Road, Schaumburg, IL 60196 (US). (72) Inventors: AKSOY, Adnan; 55 S.W. 5 Court, Boca Raton, FL 33427 (US). AUSTIN, Michael; 801 S.W. 49 Terrace, Pompano Beach, FL 33068 (US). GYENES, Russell, E.; 4148 N.W. 96 Way, Sunrise, FL 33322 (US). (74) Agents: MASSARONI, Kenneth, M. et al.; Motorola Inc., Intellectual Property Dept., 8000 West Sunrise Boulevard, Fort Lauderdale, FL 33322 (US).		(81) Designated States: CA, CN, CZ, JP, KR, PT, RU, European patent (AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). 2164227 Published <i>With international search report.</i>

(54) Title: **BATTERY LATCH**

(57) Abstract

A removable battery package (10) having a latch mechanism (32) for attaching the battery package (10) to a radio (18) is provided. The battery package (10) comprises a housing (15) having an interior surface (30), an exterior surface (14) and sidewalls (16). Engagement means (32) are located on the interior surface (30) of the housing (15) for engaging a receiving means (22) located on the radio (18). Activating means are provided for activating the latch wherein the activating means comprises a recessed portion (12) located in the exterior surface (14) of the housing (15) transverse to the engagement means (32). The recessed portion (12) is designed so that by pressing the sidewalls (16) of the housing (15) a portion of the housing (24) is temporarily outwardly deformed thereby disengaging the engagement means (32).

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Claims

1. A removable battery package having a latch mechanism for attaching the battery package to a radio, the battery package comprising:
 - 5 a housing having an interior surface, an exterior surface and sidewalls;
engagement means located on the interior surface of the housing for engaging a receiving means located on the radio;
activating means for activating the latch wherein
 - 10 the activating means comprises a recessed portion located in the exterior surface of the housing transverse to the engagement means,
the recessed portion is designed so that by pressing the sidewalls of the housing a portion of the housing is temporarily outwardly deformed thereby disengaging the engagement means.
 - 15
2. The removable battery package of claim 1 wherein the recessed portion comprises an aperture through both the exterior surface and the interior surface of the housing.
- 20 3. The removable battery package of claim 1 wherein a portion of the sidewalls that are pressed to disengage the engagement feature are thinner than a remaining portion of the sidewall of the housing.
4. The removable battery package of claim 1 further comprising a top
25 portion having grooves that facilitate the outwardly deforming of the housing when the sidewalls are pressed.
5. The removable battery package of claim 1 wherein the recessed portion comprises a curved line.

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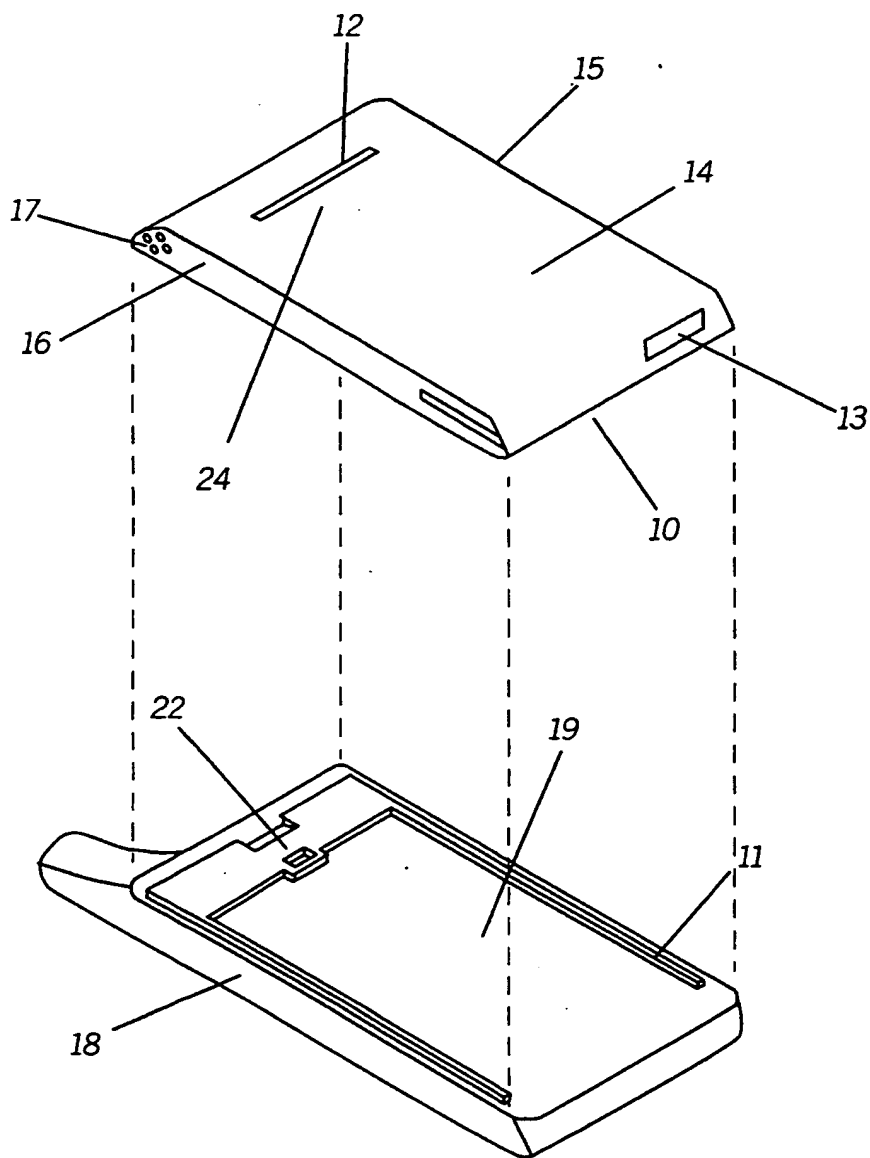
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6. A removable battery package having a latch mechanism for attaching the battery package to a radio, the battery package comprising;
a housing having an exterior surface, an interior surface, a top
5 portion and sidewalls;
engagement means located on the interior surface of the housing for engaging a receiving means located on the radio;
activating means for activating the latch wherein the activating
means comprises an aperture through the exterior surface and the
10 interior surface of the housing and transversing the engagement means so that when the sidewalls are pressed a portion of the housing is outwardly deformed thereby disengaging the engagement feature;
grooves in the top portion that facilitate the outwardly deforming of the housing when the sidewalls are pressed.
- 15
7. The removable battery package of claim 6 wherein the sidewalls that are pressed to disengage the engagement feature are thinner than a remaining portion of the sidewall of the housing.
- 20
8. The removable battery package of claim 6 wherein the aperture comprises a curved line.

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FIG. 1



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FIG.2

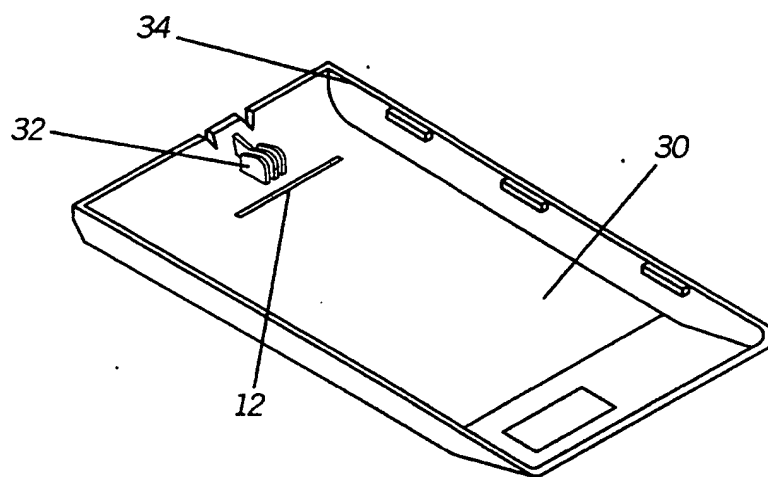
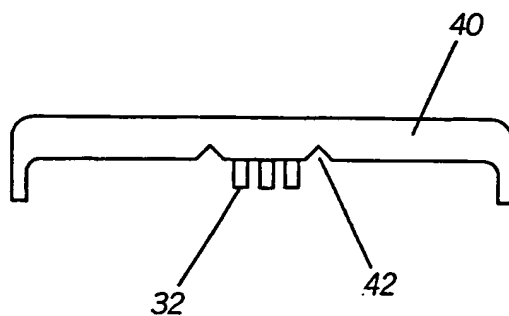


FIG.3



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